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GROUP 14

ENGINE COOLING

CONTENTS

GENERAL INFORMATION

M2140000100638

The cooling system is a water-cooled pressurized, forced circulation type which offers the following features:

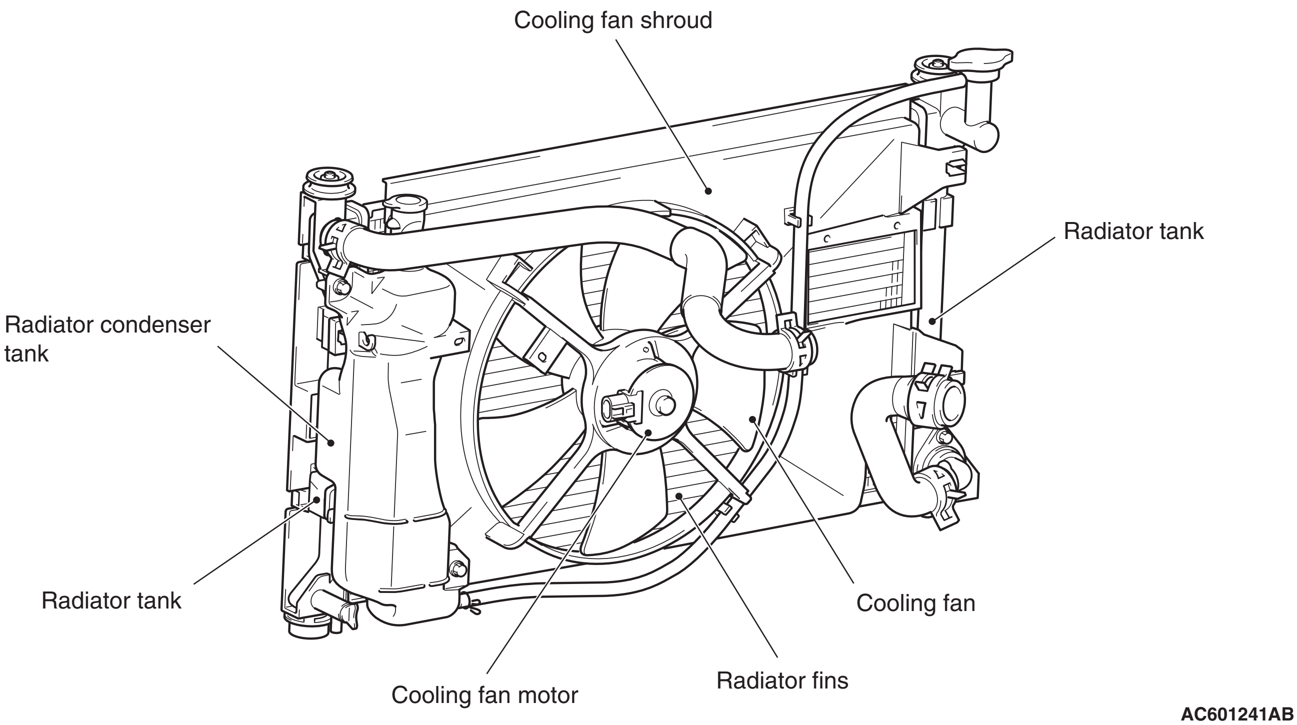
- To stabilize engine coolant temperature, the thermostat is located at the coolant inlet port from the radiator.
- To improve engine cooling performance and save weight, a plastic radiator tank and aluminium radiator fins are used.
- In order to save the weight, the A/C condenser fan has been abolished, and one-fan system has been adopted to secure sufficient cooling effect using the radiator fan only.
- A radiator condenser tank integrated with a radiator has been adopted in order to save the weight.
- A cross flow type radiator assembly whose tanks are installed on the both sides of the radiator fins has been adopted in order to decrease the overall height of the radiator and improve the aerodynamic performance.
- Sufficient radiator fin area and cooling fan diameter are secured, and the radiator fin pitch is increased. As a result, the capacity of the cooling fan motor is reduced cutting down the power consumption, and the noise and weight of the cooling fan are reduced.

SPECIFICATIONS

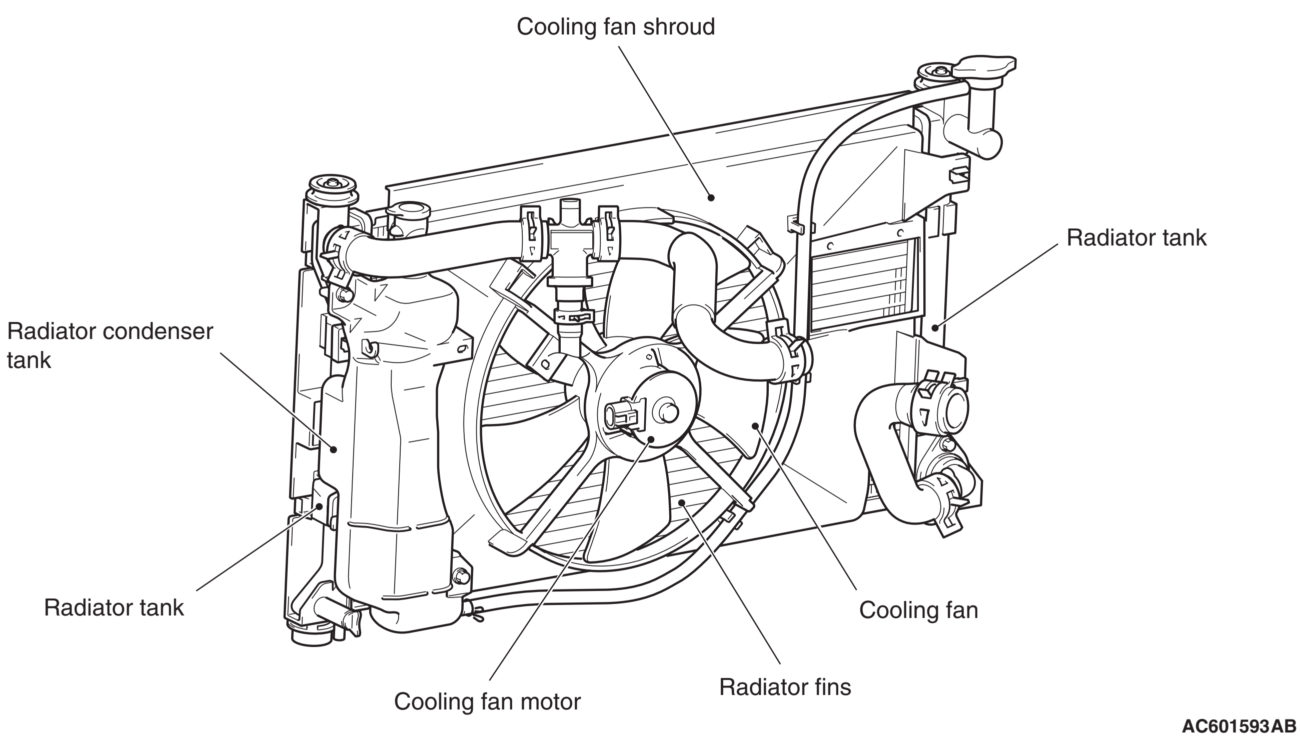
Item		4A9-M/T	4A9-CVT	4G1
Cooling method		Water-cooled pressurized, forced circulation with electrical fan		
Water pump	Type	Centrifugal impeller		
	Drive method	Drive belt		
Thermostat	Type	Wax pellet with jiggle valve		
	Valve open temperature °C	82 ± 2		82 ± 1.5
Radiator	Type	Pressurized corrugate type		
	Core size (width × height × thickness) mm	369.8 × 624.2 × 16		
	Performance kJ/h	155,200		175,300
Engine coolant	Specified coolant	DIA QUEEN SUPER LONG LIFE COOLANT or equivalent		
	Quantity (including radiator condenser tank) L	5.3	5.4	6.8

CONSTRUCTION DIAGRAM

<4A9-M/T>

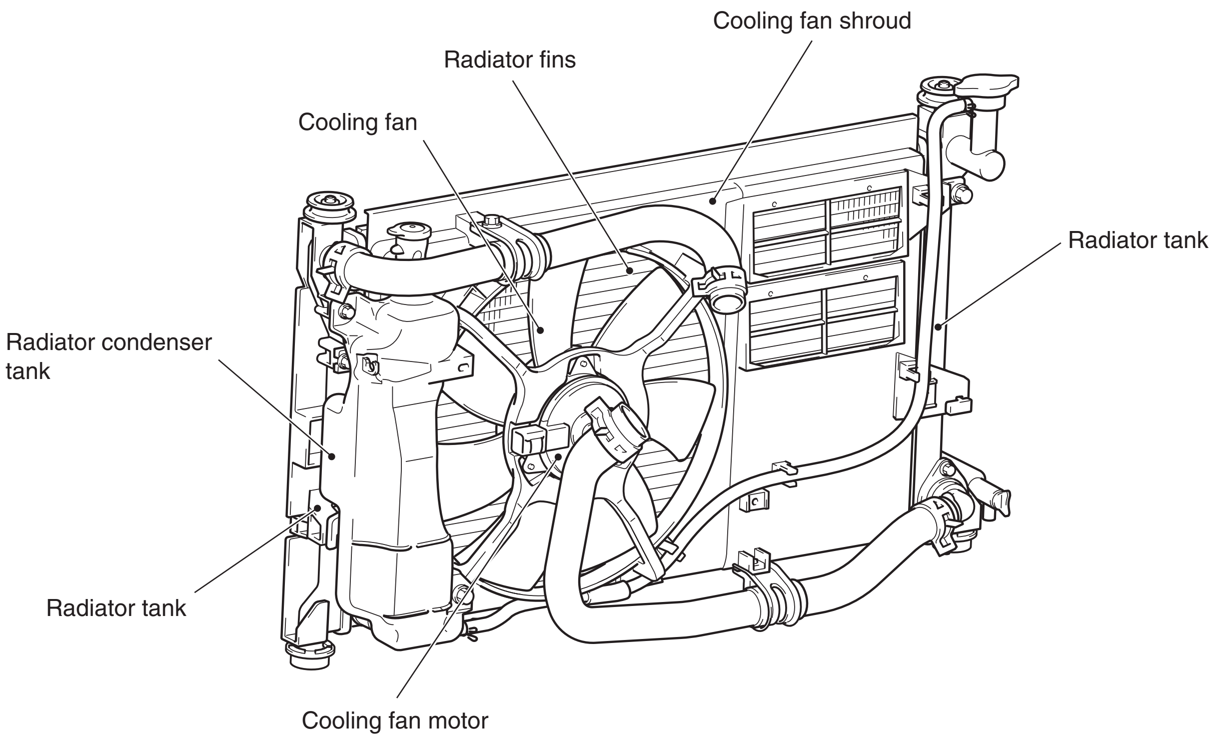


<4A9-CVT>



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